



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: HTF7250G (AS907-2-1G) BYPASS RATIO: 4.2
 UNIQUE ID NUMBER: 11HN004 PRESSURE RATIO (π_{co}): 22.6
 COMBUSTOR: SABER-1
 ENGINE TYPE: MTF RATED THRUST (F_{oo}) (kN): 32.9

REGULATORY DATA

**** DATA SUPERSEDED ****

SEE FOLLOWING UID FOR REVISED DATA:

11HN005

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	3.1	84.9	49.5	16.0
AS % OF ORIGINAL LIMIT	15.9	72.0	58.1	49.7
AS % OF CAEP/2 LIMIT (NO _x)			72.6	
AS % OF CAEP/4 LIMIT (NO _x)			74.0	
AS % OF CAEP/6 LIMIT (NO _x)			74.7	
AS % OF CAEP/8 LIMIT (NO _x)			79.5	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.372	0.06	0.54	18.29	13.6
CLIMB OUT	85	2.2	0.308	0.06	0.61	16.39	10.6
APPROACH	30	4.0	0.107	0.11	6.29	8.74	0.7
IDLE	7	26.0	0.049	0.94	29.28	3.91	1.2
LTO TOTAL FUEL (kg) or EMISSIONS (g)			158				-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				6	6	6	6
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				2.4	74.0	44.9	13.6
SIGMA (D _p /F _{oo} in g/kN, or SN)				0.6	3.5	2.9	0.9
RANGE (D _p /F _{oo} in g/kN, or SN)				1.82-3.24	70.64-79.66	39.63-47.31	11.4-13.6

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	96.4-97.4
TEMPERATURE (K)	304-313
ABS HUMIDITY (kg/kg)	0.0035-0.0125

FUEL

SPEC	Jet A
H/C	1.87-1.89
AROM (%)	18.2-19.1

MANUFACTURER: Honeywell
 TEST ORGANIZATION: Honeywell
 TEST LOCATION: Phoenix, AZ
 TEST DATES: 16/06/2010-29/07/2010

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
x	2.3.2 d) (CAEP/6)
	2.3.2 e) (CAEP/8)

REMARKS

- Reference: Honeywell Report 21-13729(29)-1
- Exhaust Smoke and Gaseous Emissions test of the AS907-2-1G Turbofan Engine
- Reported using humidity h=0.00629 in accordance with 14 CFR 34
- Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
- NO_x levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

Compliance with Fuel Venting requirements:

x ('x' if complies, 'PR' if pre-regulation, '- ' if information is not available)